

We claim:

1. Means for tumor therapy on a liposome basis, containing:

- an alkylphospholipid with anti-neoplastic effectivity
- a water or lipid-soluble anti-oestrogen with anti-neoplastic effectivity, associated in a liposomal form with the alkylphospholipid
- a phospholipid without anti-neoplastic effectivity
- if need be, cholesterol or any other suitable sterol
- if need be, a lipid with positive or negative charge
- if need be, a polyethylene glycol modified lipid (PEG lipid)
- pharmaceutically customary carrier and ancillary materials.

2. Means according to Claim 1, wherein compounds of general structure 1 are used as alkylphospholipids,

Structure I:

R-Y-P-X

with the meanings:

R: an alkyl, alkenyl or alkynyl residue with 12 to 22 C atoms

Y: oxygen, sulphur or CH₂

P: phosphate (PO₂)

X: a choline or modified choline rest or serine,
ethanolamine, glycerine groups or synthetic

3. Means according to claims 1 and 2, wherein suitably
hexadecylphosphocholine, octadecylphosphocholine, erucylphosphocholine,
octadecyl-[2-(N-methylpiperidino)ethyl]phosphate,
octadecylphosphoethanolamine and hexadecyl-phosphoserine are used.
4. Means according to Claim 1, wherein anti-oestrogens such as Tamoxifen,
Droloxifen, Toremifene, Idoxifene, Raloxifene, Miproxifene-Phospate (TAT-
59), ICI 164,3384, ICI 182,780 and the main metabolites of Tamoxifen, 4-
hydroxytamoxifen, N-desmethyltamoxifen, including new anti-oestrogens not
yet described in more detail, are used as further substances with an anti-
neoplastic effect, associated with the alkylphospholipid in a liposomal form.
5. Means according to Claim 1, wherein an anti-neoplastically inert lipid of
natural or synthetic origin such as phosphocholine, serine, ethanolamine,
glycerol or other similar lipids is used as the basic lipid for the membrane
formation, the ratio of lipid to anti-oestrogen being 0-10 : 1 (m/m).
6. Means according to Claim 1, wherein cholesterol or another suitable sterol
such as sitosterol is contained and the sterol is in a molar ratio of 0-1 : 1 to the
alkylphospholipid.

1 7. Means according to Claim 1, wherein a polyethylene glycol modified lipid
2 (PEG-Lipid), suitably N-(O-methoxy-polyethylenglycyl)-1,2-distearyl-s,n-
3 glycerol-3-phosphoethanolamine (PEG₂₀₀₀-DSPE) is added.

1 8. Means according to Claim 1, wherein it contains OPP as the first anti-
2 neoplastically effective substance and Tamoxifen as a further anti-
3 neoplastically effective substance.